chain nodes :

7 8 10 11 27 28 29 30

ring nodes :

 $1 \quad 2 \quad 3 \quad 4 \quad 5 \quad 6 \quad 9 \quad 12 \quad 13 \quad 14 \quad 15 \quad 16 \quad 17 \quad 18 \quad 19 \quad 20 \quad 21 \quad 22 \quad 23 \quad 24 \quad 25 \quad 26$ 

chain bonds :

 $1-7 \quad 3-10 \quad 7-8 \quad 8-9 \quad 10-11 \quad 11-12 \quad 13-30 \quad 15-29 \quad 18-21 \quad 20-28 \quad 24-27$ 

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 9-17 9-20 12-13 12-16 13-14 14-15 15-16 17-18

18-19 19-20 21-22 21-26 22-23 23-24 24-25 25-26

exact/norm bonds :

 $1-2 \quad 1-6 \quad 1-7 \quad 2-3 \quad 3-4 \quad 4-5 \quad 5-6 \quad 7-8 \quad 9-17 \quad 9-20 \quad 12-13 \quad 12-16 \quad 13-14 \quad 13-30$ 

14-15 15-16 15-29 17-18 18-19 19-20 20-28

exact bonds :

3-10 8-9 10-11 11-12 18-21 24-27

normalized bonds :

21-22 21-26 22-23 23-24 24-25 25-26

# Match level:

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:Atom 10:CLASS 11:CLASS 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:CLASS 28:CLASS 29:CLASS 30:CLASS

# L1 STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

1 STR

Structure attributes must be viewed using STN Express query preparation.

=> s 11

SAMPLE SEARCH INITIATED 09:44:23 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 2 TO ITERATE

100.0% PROCESSED 2 ITERATIONS 0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 2 TO 124
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s 11 full

FULL SEARCH INITIATED 09:44:26 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 51 TO ITERATE

100.0% PROCESSED 51 ITERATIONS 19 ANSWERS

SEARCH TIME: 00.00.01

L3 19 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS SINCE FILE TOTAL

FULL ESTIMATED COST ENTRY SESSION 161.33 161.54

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FILE COVERS 1907 - 17 Aug 2005 VOL 143 ISS 8 FILE LAST UPDATED: 16 Aug 2005 (20050816/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 13

L4 1 L3

=> d ibib abs hitstr tot

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:740322 CAPLUS
111:260738
111:260738
Preparation of oxazolylmethoxycyclohexanols as FPARa agonists for the treatment of type II diabetes
INVENTOR(S): Gretzke, Dirk, Glombik, Heiner, Falk, Eugen, Goerlitzer, Jochen, Keil, Stefanier Schaefer, Hans-Ludwig, Stapper, Christian; Wendler, Wolfgang Aventis Pharma Beutschland GmbH, Germany PCT Int. Appl., 119 pp.
CODDN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.																	
WD 2004076447							WO 2004-EP1585										
	AE,																
						BY.											
	cu,	cu,	CZ,	CZ,	DE,	DE,	DK,	DK.	DM,	DZ,	EC,	EC,	EE,	EE,	EG,	ES,	
	ES,	FI,	FI,	GB,	GD,	GE,	GE,	GH,	GM,	HR,	HR,	HU,	HU,	ID,	IL,	IN.	
	ıs,	JP,	JP,	KE,	KE,	KG,	KG,	KP,	KP,	KP,	KR,	KR,	KZ,	KZ,	KZ,	LC,	
	LK,	LR,	LS,	LS,	LT,	LU,	LV,	MA,	MD,	MD,	MG,	MK,	MN,	M¥,	ΜX,	HΧ,	
	MZ,	ΜZ,	NA,	NI													
RV:	BW,	GH,	GH,	ΚE,	LS,	MW.	MŻ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	Z₩,	ΑŤ,	BE,	
	BG,	CH,	CY,	CZ,	DΕ,	DK,	EE,	ES,	FI,	FR,	GB,	GR,	ΗU,	ΙE,	IT,	LU,	
						SI,											
						SN,			BF,	ВJ,	CF,	œ,	CI,	αŧ,	GA,	GN,	
						SN,											
DE 1030																	
US 2004						2004	1007										
PRIORITY APP	LN. I	NFO	. :							003~							
									US 2	003~	4874	32P		P 2	0030	715	
OTHER SOURCE GI	(5):			MAR	PAT	141:	2607	38									

$$\begin{array}{c} R \\ N \\ N \\ N \\ N \\ \end{array}$$

$$\begin{array}{c} R1 \\ X - X1 - Y - R2 \\ \end{array}$$

$$\begin{array}{c} O \\ CH_2 - O \\ \end{array}$$

$$\begin{array}{c} O \\ CH_2 - O \\ \end{array}$$

$$\begin{array}{c} O \\ CH_2 - O \\ \end{array}$$

ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN (Continued) 2,4-Thiazolidinedione, 5-[2-[(1R,3R)-3-[[5-ethyl-2-[4-(1-methylethyl)phenyl]-4-oxazolyl]methoxylcyclohexyl]ethyl]- (9CI) (CA INDEX NAME)

755420-15-6 CAPLUS 2,4-Thiazolidinedione, 5-[2-[(15,35)-3-[[5-methyl-2-(4-methylphenyl)-4-oxazolyl]methoxy]cyclohexyl]ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

755420-21-4 CAPLUS 2,4-Thiazolidinedione, 5-[2-[(1R,3R)-3-[[5-methyl-2-(4-methylphenyl)-4-oxazolyl]methoxy]cyclohexyl]thyl]- (SCI) (CA INDEX NAME)

Absolute stereochemistry.

755418-98-5P

RL: RCT (Reactant): SPN (Synthetic preparation): THU (Therapeutic use): BIOL (Biological study): PREP (Preparation): RACT (Reactant or reagent): USES (Uses)

USES (Uses) (Preparation of oxazolylmethoxycyclohexanols as PPARe agonists for the treatment of type II diabetes) 755418-98-5 CAPLUS

/bb418-98-5 CAPLUS
2.4-Thiazolidinedione, 5-[1-hydroxy-2-(1R,3R)-3-[5-methyl-2-{4-methylphenyl)-4-oxazolyl]methoxy]cyclohexyl]ethyl]-, rel- (9CI) (CA INDEX

Relative stereochemistry.

ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN

Title compds. I [R = (un) substituted Ph, annulated Ph; Rl = H, CF3, alkyl, alkosy, cycloalkyl, Ph; R2 = (un) substituted Ph, oxoheterocyclyl; X = alkanadiyl, casalkanadiyl; X1 = cycloalkanadiyl, cycloalkenediyl, oxacyclalkanediyl, oxacyclalkanediyl, cycloalkenediyl, alkenediyl, alkanadiyl, alkenediyl) were perpared for treating and/or preventing disturbances of fatty acid metabolism, impaired glucose utilization, and disturbances in

insulin resistance plays a role. Thus, 2-(4-fluorophenyl)-4-iodomethyl-5-methyloxazole was treated with 1,3-cyclohexanediol, followed by 3-02NCGHCHZBr to give the title compound II which had EC50 for activation of the PPARG receptor of 91 nM. Compds. I are claimed useful for the treatment of type II diabetes.
755419-15-99
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(Uses)
(preparation of oxazolylmethoxycyclohexanols as PPAR# agonists for the treatment of type II diabetes)
755419-15-9 CAPLUS
2,4-Thiazolidinedione, 5-[2-{(1R,3R)-3-{[5-methyl-2-(4-methylphenyl)-4-oxazolyl]methoxy]cyclohexyl]ethyl]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

755420-03-2P 755420-08-7P 755420-15-6P
755420-21-4P
RL: PUR (Purification or recovery); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(Uses)
(preparation of oxazolylmethoxycyclohexanols as PPARa agonists for the treatment of type II diabetes)
755420-03-2 CAPLUS
2,4-Thiazolidinedione, 5-[2-[(1s,3s)-3-[[5-ethyl-2-[4-(1-methylethyl)phenyl]-4-oxazolyl]methoxylycyclohexyl)ethyl]- (CA INDEX NAME)

Absolute stereochemistry.

755420-08-7 CAPLUS

ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN

755419-71-7P 755419-76-2P 755419-80-8P 755420-26-9P 755420-33-8P 755420-48-5P 755420-52-1P 755420-57-6P 755420-67-8P 755420-33-6P 755420-79-2P 755420-98-5P 755421-04-6P

735421-04-69
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of oxazolylmethoxycyclohexanols as PPARa agonists for the treatment of type II diabetes)
755419-71-7 CAPLUS
2,4-Thiazolidinedione, 5-[2-[(1R,3R)-3-[[5-ethyl-2-(4-methylphenyl)-4-oxazolyl]methoxy]cyclohexyl]ethyl]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

755419-76-2 CAPLUS 2.4-Thiazolidinedione, 5-{2-[(1R,3R)-3-[[5-ethyl-2-[4-(1-methylethyl)penyl]-4-oxazolyl]methoxy]cyclohexyl]ethyl]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

755419-80-8 CAPLUS 2,4-Thiazolidinedione, 5-[2-[(1R,3R)-3-[[5-(1-methylethyl)-2-(4-methylphenyl)-4-oxazolyl]methoxy]cyclohexyl]ethyl]-, rel- (9CI) (CA INDEX

Relative stereochemistry.

ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN

755420-26-9 CAPIUS 2,4-Thiazolidinedione, 5-{2-{(15,35)-3-{(2-(3,4-dimethylphenyl)-5-ethyl-4-oxazolyl}methoxy}cyclohexyl}ethyl}- (9CI) (CA INDEX NAME)

#### Absolute stereochemistry.

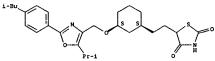
755420-33-8 CAPLUS 2.4-Thiazolidinedione, 5-[2-[(15,35)-3-[[5-ethyl-2-[4-(trifluoromethyl)phenyl]-4-oxazolyl]methoxylcyclohexyl}ethyl}- (9CI) (CA INDEX NAME) (CA)

#### Absolute stereochemistry.

755420-48-5 CAPLUS 2,4-Thiazolidinedione, 5-[2-[(15,3S)-3-[[2-[4-(1,1-dimethylethyl)phenyl]-5-ethyl-4-oxazolyl]methoxy]cyclohexyl]ethyl]- (9CI) (CA INDEX NAME)

#### Absolute stereochemistry.

ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN



755420-79-2 CAPLUS 2,4-Thiazolidinedione, 5-[2-[{15,35}-3-{[5-(1-methylethyl)-2-[4-(trifluoromethyl)phenyl]-4-oxazolyl]methoxy]cyclohexyl]ethyl]- (9CI) (CA INDEX NAME)

# Absolute stereochemistry.

755420-98-5 CAPLUS

2,4-Thiazolidinedione, 3-methyl-5-[2-[(1R,3R)-3-[[5-methyl-2-(4-methylphenyl)-4-oxazolyl]methoxy]cyclohexyl]ethyl]-, rel- (9CI) (CA INDEX

## Relative stereochemistry.

755421-04-6 CAPLUS 2,4-Thiazolidinedione, 5-[2-[(1R,3R)-3-[(5-methyl-2-(4-methylphenyl)-4-oxazolyl]methoxy]cyclohexyl]ethyl]-3-(phenylmethyl)-, rel- (9CI) (CA INDEX MAME)

#### Relative stereochemistry.

- ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN
- 755420-52-1 CAPLUS
  2.4-Thiazolidinedione, 5-[2-[(15,35)-3-[[2-(3,4-dimethylphenyl)-5-(1-methylethyl)-4-oxazolyl]methoxy]cyclohexyl]ethyl]- (9CI) (CA INDEX NAME)

#### Absolute stereochemistry.

- 755420-57-6 CAPLUS
  2,4-Thiazolidinedione, 5-[2-{(15,35)-3-{{5-ethyl-2-{4-{2-methylpropyl)phenyl}-4-oxazolyl}methoxylcyclohexyl]ethyl}- (9CI) (CA INDEX NAME)

#### Absolute stereochemistry.

- 755420-67-8 CAPLUS 2,4-Thiazolidinedione, 5-{2-{(15,35)-3-{{2-[4-(1,1-dimethylethyl)phenyl}-5-(1-methylethyl)-4-oxazolyl]methoxy}cyclohexyl]ethyl]- (9CI) (CA INDEX NAME)

#### Absolute stereochemistry.

- 755420-73-6 CAPLUS 2,4-Thiazolidinedione, 5-[2-[(15,35)-3-[[5-(1-methylethyl)-2-[4-(2-methylpropyl)phenyl]-4-cxazolyl]methoxy[cyclohexyl]ethyl]- (9CI) (CA INDEX NAME)

#### Absolute stereochemistry.

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file reg COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 5.39 166.93 DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL ENTRY SESSION CA SUBSCRIBER PRICE -0.73-0.73

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STRUCTURE FILE UPDATES: 16 AUG 2005 HIGHEST RN 860495-66-5 DICTIONARY FILE UPDATES: 16 AUG 2005 HIGHEST RN 860495-66-5

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TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

<sup>\*</sup> The CA roles and document type information have been removed from \*

```
Chain nodes:
7  8  10  22
ring nodes:
1  2  3  4  5  6  9  11  12  13  14  15  16  17  18  19  20  21  26  27  28  29
Chain bonds:
1-7  3-10  7-8  8-9  10-11  13-16  15-22
ring bonds:
1-2  1-6  2-3  3-4  4-5  5-6  9-12  9-15  11-26  11-29  12-13  13-14  14-15  16-17
16-21  17-18  18-19  19-20  20-21  26-27  27-28  28-29
exact/norm bonds:
1-2  1-6  1-7  2-3  3-4  3-10  4-5  5-6  7-8  8-9  9-12  9-15  10-11  11-26  11-29
12-13  13-14  13-16  14-15  15-22  26-27  27-28  28-29
normalized bonds:
16-17  16-21  17-18  18-19  19-20  20-21
```

# G1:0,S

# Match level: 1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:Atom 10:CLASS 11:CLASS 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 22:CLASS 26:Atom 27:Atom 28:CLASS 29:Atom

# L5 STRUCTURE UPLOADED

=> d L5 HAS NO ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH

\*\*COMPLETE\*\*

PROJECTED ITERATIONS:

7 TO 298

PROJECTED ANSWERS:

1 TO 80

L6

1 SEA SSS SAM L5

=> s 15 full

FULL SEARCH INITIATED 09:45:07 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 108 TO ITERATE

100.0% PROCESSED

108 ITERATIONS

52 ANSWERS

SEARCH TIME: 00.00.01

L7

52 SEA SSS FUL L5

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE TOTAL

ENTRY SESSION

FULL ESTIMATED COST

161.33 328.26

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE TOTAL

ENTRY SESSION

CA SUBSCRIBER PRICE

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L8 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:740322 CAPLUS
1141:260738
1151LE: PAREA agonists for the treatment of type II diabetes
INVENTOR(S): Gretzke, Dirk, Glocchik, Heiner, Falk, Eugen, Goerlitzer, Jochen, Keil, Stefanke, Schaefer, Hans-Luckig, Stapper, Christian, Wendler, Wolfgang
Aventis Pharma Deutschland GmbH, Germany
COUNCE: COUNCE: PAREA C

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.			KIND DATE			APPLICATION NO.									
WO 2004	076447			-											
W:	AE, AE	, AG,	AL,	AL,	AM,	AM,	AM,	AT,	AT,	AU,	AZ,	AZ,	BA,	BB,	ВС
	BG, BR	BR,	B₩,	BY,	BY,	BZ.	BZ,	CA,	CH,	CN,	CN,	co,	α,	CR,	CF
	cu, cu	. cz.	CZ,	DE,	DE,	DK.	DK,	DH,	D2,	EC,	EC.	EE,	EE,	EG,	ES
	ES, FI	. FI.	GB,	GD,	GE,	GE,	GH,	GH,	HR,	HR,	HU,	HU,	ID,	IL,	11
	IS, JP	JP.	KE,	KE,	KG,	KG.	KP.	KP.	KP.	KR.	KR.	KZ,	KZ,	KZ,	LC
	LK, LR	LS.	LS,	LT,	LU,	LV.	MA,	MD,	MD.	MG.	MK.	MN,	MW.	MX,	Ю
	MZ, MZ	NA.	NI												
RW:	BW, GH	GM.	KE,	LS,	MW.	MZ,	SD,	SL.	SZ.	TZ,	UG,	ZM.	ZV.	AT,	BE
	BG, CH														
	MC, NL	PT,	RO,	SE,	SI,	SK,	TR,	BF,	BJ,	CF,	CG,	CI,	CM,	GA,	Għ
	GQ, GW	ML,	MR,	NE,	SN,	TD,	TG,	BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	G)
	GQ, GW	, ML,	MR,	NE,	SN,	TD,	TG								
DE 1030	8354		A1		2004	1223		DE 2	003-	1030	8354		2	0030	227
US 2004	198786		A1		2004	1007		US 2	004-	7898	65		2	0040	227
PRIORITY APP	LN. INF	o.:						DE 2	003-	1030	8354		A 2	:0030	227
								US 2	003-	4874	32P		P 2	0030	715
OTHER SOURCE GI	(5):		MAR	PAT	141:	2607	38								

$$\begin{array}{c} R \\ N \\ N \\ X - X^{1} - Y - R^{2} \end{array}$$

$$\begin{array}{c} O \\ Me \\ CH_{2} - O \\ O - CH_{2} \\ \end{array}$$

$$\begin{array}{c} NO_{2} \\ O \\ \end{array}$$

ANSWER 1 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN (Continued) oxazolyl]methoxy]cyclohexyl]ethyl]- (9CI) (CA INDEX NAME)

755420-03-2 CAPLUS
2.4-Thiazolidinedione, 5-[2-[(15,35)-3-[[5-ethyl-2-[4-(1-methylethyl)phenyl]-4-oxazolyl]methoxy[cyclohexyl]ethyl]- (CA INDEX NAME)

755420-08-7 CAPLUS
2,4-Thiazolidinedione, 5-{2-[(1R,3R)-3-[[5-ethyl-2-[4-(1-methyl)phenyl]-4-oxazolyl]methoxy]cyclohexyl]ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

755420-15-6 CAPLUS 2.4-Thiazolidinedione, 5-[2-[(15,35)-3-[[5-methyl-2-(4-methylphenyl)-4-oxazolyl]methoxy]cyclohexyl]ethyl]- (9C1) (CA INDEX NAME)

Absolute stereochemistry.

ANSWER 1 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN

Title compds. I [R = (un)substituted Ph, annulated Ph; R1 = H, CF3, alkyl, alkowy, cycloalkyl, Ph; R2 = (un)substituted Ph, oxoheterccyclyl; X = alkanadiyl, oxaalkanediyl; X1 = cycloalkanediyl; cycloalkenediyl, oxacyclalkanediyl, oxacyclalkanediyl, oxacyclalkanediyl, oxacyclalkanediyl, alkenediyl; Y = (un)substituted alkanadiyl, alkenediyl] were prepared for treating and/or preventing disturbances of fatty acid metabolism, impaired glucose utilization, and disturbances in

insulin resistance plays a role. Thus, 2-(4-fluorophenyl)-4-iodomethyl-5methyloxazole was treated with 1,3-cyclohexanediol, followed by
3-02NCGHCHIZB: to give the title compound II which had EC50 for activation
of the PFAR receptor of 91 mN. Compds. I are claimed useful for
the treatment of type II diabetes.
755419-15-99
RI: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
(Uses)
(preparation of oxazolylmethoxycyclohexanols as PPARa agonists for the

(Uses)
(preparation of oxazolylmethoxycyclohexanols as PPARa agonists for the treatment of type II diabetes)
755419-15-9 CAPLUS
2.4-Thiazolidinedione, 5-[2-{(1R,3R)-3-{[5-methyl-2-(4-methylphenyl)-4-oxazolyl]methoxy]cyclohexyl]ethyl]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

755419-93-3P 755419-98-8P 755420-03-2P 755420-08-P7 755420-16-6P 755420-21-4P RI: PUR (Purification or recovery) SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES

(Uses)
[preparation of oxazolylmethoxycyclohexanols as PPARa agonists for the treatment of type II diabetes)
755419-93-3 CAPLUS
2.4-Thiazolidinedione, 5-[2-[(1R,3R)-3-[[5-methyl-2-(3-methylphenyl)-4-oxazolyl]methoxy]cyclohexyl]ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

755419-98-8 CAPLUS 2.4-Thiazolidinedione, 5-[2-[(15,35)-3-[[5-methyl-2-(3-methylphenyl)-4-

ANSWER 1 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN

755420-21-4 CAPLUS
2.4-Thiazolidi nedione, 5-[2-[(1R,3R)-3-[(5-methyl-2-(4-methylphenyl)-4owazolyl]methowy|cyclohemyl]ethyl]- (SCI) (CA INDEX NAME)

Absolute stereochemistry.

755418-86-1P 755418-92-9P 755418-98-5P

755418-96-1P 755418-92-9P 755418-98-5P

RI: RCT (Reactant): SPN (Synthetic preparation): THU (Therapeutic use):
BIOL (Biological study): PREP (Preparation): RACT (Reactant or reagent):
USES (Uses)

(preparation of oxazolylmethoxycyclohexanols as PPARa agonists for the
treatment of type II diabetes)
755418-86-1 CAPUS
2,4-Thiazolidinedione, 5-[1-hydroxy-2-[(1R,3R)-3-[[5-methyl-2-(3methylphenyl)-4-oxazolyl]methoxy]cyclohexyl]ethyl]-, rel- (9CI) (CA INDEX
NAME)

Relative stereochemistry.

755418-92-9 CAPLUS 2.4-Thiazolidinedione, 5-[1-hydroxy-2-[(1R,3R)-3-[[2-(3-methoxyphenyl)-5-methyl-4-oxazolyl]methoxy]cyclohexyllethyl-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

ANSWER 1 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

755418-98-5 CAPLUS 2.4-Thiazolidinedione, 5-[1-hydroxy-2-[(1R,3R)-3-[[5-methyl-2-(4-methylphenyl)-4-oxazolyl]methoxy]cyclohexyl]ethyl]-, rel- (9CI) (CA INDEX NAME)

#### Relative stereochemistry.

755419-05-7P 755419-10-4P 755419-27-3P
755419-43-3P 755419-48-9P 755419-54-6P
755419-61-5P 755419-65-9P 755419-71-7P
755419-62-P 755419-00-6P 755419-71-7P
755420-26-9P 755420-33-8P 755420-33-3P
755420-26-9P 755420-63-4P 755420-52-1P
755420-57-6P 755420-63-4P 755420-67-8P
755420-13-6P 755420-63-4P 755420-98-5P
755420-72-P 755420-93-1P
755420-67-2P 755420-99-1P
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological Study); PREP (Preparation); USES (Uses)
(preparation of oxazolylaethoxycyclohexanols as PPARæ agonists for the treatment of type II diabetes)
755419-05-7 CAPLUS
2,4-Thiazolidinedione, 5-[2-[(1R,3R)-3-[[5-methyl-2-(3-methylphenyl)-4-oxazolyl]methoxylcyclohexyl]ethyl]-, rel- (9CI) (CA INDEX NAME)

#### Relative stereochemistry.

755419-10-4 CAPLUS 2,4-Thiazolidinedione, 5-{2-{(1R,3R)-3-[[2-(3-methoxyphenyl)-5-methyl-4-

ANSWER 1 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN

755419-54-6 CAPLUS 2,4-Thiazolidinedione, 5-[2-[(1R,3R]-3-[[5-methyl-2-[2-(trifluoromethyl)phenyl]-4-oxazolyl]methoxy]cyclohexyl]ethyl]-, rel- (9CI) (CA INDEX NAME)

#### Relative stereochemistry

7554]-61-5 CAPLUS 2,4-Thiazolidinedione, 5-(2-[(1R,3R)-3-[[5-ethyl-2-(3-methoxyphenyl)-4-oxazolyl]methoxy]cyclohexyl]ethyl-, rel- (9CI) (CA INDEX NAME)

# Relative stereochemistry.

755419-65-9 CAPLUS
2,4-Thiazolidinedione, 5-{2-{{IR,3R}-3-{{5-ethyl-2-{2-}}}}}}
(trifluoromethyl)phenyl]-4-oxazolyl]methoxy]cyclohexyl]ethyl]-, rel- (9CI)
(CA INDEX NAME)

#### Relative stereochemistry.

$$\begin{array}{c|c} & & & \\ & & & \\$$

ANSWER 1 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN (Continued) oxazolyl]methoxy]cyclohexyl]ethyl]-, rel- (9CI) (CA INDEX NAME)

#### Relative stereochemistry.

755419-27-3 CAPLUS
2.4-Thiazolidinedione, 5-[{(1R,35)-3-[{5-methyl-2-(4-methylphenyl)-4-oxazolyl]methoxy]cyclohexyl]methyl]-, rel- (9CI) (CA INDEX NAME)

755419-43-3 CAPLUS
2.4-Thiazolidinedione, 5-{2-[(1R,3R)-3-[[2-[3,5-bis(trifluoromethyl]phenyl]-5-ethyl-4-oxazolyl]methoxy]cyclohexyl]ethyl}-.rel- (9CI) (CA INDEX NAME)

#### Relative stereochemistry.

755419-49-9 CAPLUS 2,4-Thiazolidinedione, 5-{2-[(1R,3R)-3-[(2-(2,6-dimethylphenyl)-5-ethyl-4-oszolyl)methoxy)cyclohexyl]ethyl]-, rel- (9CI) (CA INDEX NAME)

ANSWER 1 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN

755419-71-7 CAPLUS
2,4-Thiazolidinedione, 5-[2-[(1R,3R)-3-[(5-ethyl-2-(4-methylphenyl)-4-oxazolyl]methoxy]cyclohexyl]ethyl]-, rel- [9CI) (CA INDEX NAME)

# Relative stereochemistry.

755419-76-2 CAPLUS
2.4-Thiazolidinedione, 5-[2-[(1R,3R)-3-[[5-ethyl-2-[4-(1-methylethyl)phenyl]-4-oxazolyl]methoxylcyclohexyl]ethyl]-, rel- (9CI) (CA INDEX NAME)

# Relative stereochemistry.

7554]9-80-8 CAPLUS 2,4-Thiazolidindione, 5-[2-[(1R.3R)-3-[[5-(1-methylethyl)-2-(4-methyleheyl)-4-owazolyl]methoxy]cyclohexyl]ethyl]-, rel- (9CI) (CA INDEX

#### Relative stereochemistry.

755419-87-5 CAPLUS 2.4-Thiazolidinedione, 5-[2-[(1R,3R)-3-[[5-methyl-2-[3-[trifluoromethyl]phenyl]-4-oxazolyl]methoxy]cyclohexyl]ethyl]-, rel- (9CI) (CA INDEX NAME)

#### Relative stereochemistry.

RN 755420-26-9 CAPLUS
CN 2,4-Thiazolidinedione, 5-[2-[(15,35)-3-[[2-(3,4-dimethylphenyl)-5-ethyl-4-oxazolyl]methoxy]cyclohexyl]ethyl]- (9Cl) (CA INDEX NAME)

#### Absolute stereochemistry.

RN 755420-33-8 CAPLUS
CN 2,4-Thiazolidinedione, 5-[2-{(1s,3s)-3-{[5-ethyl-2-[4-(trifluoromethyl)phenyl]-4-oxazolyl]methoxy]cyclohexyl]ethyl]- (9CI) (CA INDEX NAME)

#### Absolute stereochemistry.

RN 755420-38-3 CAPLUS
CN 2,4-Thiazolidinedione, 5-[2-[(15,35)-3-[[5-ethyl-2-(2-naphthalenyl)-4-oxazolyl]methoxy]cyclohexyl]ethyl]- (9CI) (CA INDEX NAME)

#### Absolute stereochemistry

# L8 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN (Continued

RN 755420-57-6 CAPLUS
CN 2.4-Thiazolidinedione, 5-[2-[(15,35)-3-[[5-ethyl-2-[4-(2-methylpropyl)phenyl]-4-oxazolyl]methoxy]cyclohexyl]ethyl]- (9CI) (CA INDEX NAME)

## Absolute stereochemistry.

RN 755420-63-4 CAPLUS
CN 2.4-Thiazolidinedione, 5-[2-[(15,35)-3-[[5-(1-methylethyl)-2-[3-(trifluoromethyl)phenyl]-4-owazolyl]methoxy]cyclohexyl]ethyl]- (9CI) (CA INDEX NAME)

#### Absolute stereochemistry.

RN 755420-67-8 CAPLUS
CN 2.4-Thiazolidinedione, 5-[2-[(1S,3S)-3-[[2-[4-(1,1-dimethylethyl)phenyl]-5-(1-methylethyl)-4-oxazolyl]methoxy]cyclohexyl]ethyl]- (9CI) (CA INDEX NAME)

#### Absolute stereochemistry.

#### L8 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN (Continue

RN 755420-42-9 CAPLUS
CN 2,4-Thiazolidinedione, 5-[2-[(15,35)-3-[[5-ethyl-2-[3-(trifluoromethyl)phenyl]-4-oxazolyl]methoxy]cyclohexyl]ethyl]- (9CI) (CA INDEX NAME)

#### Absolute stereochemistry.

RN 755420-48-5 CAPLUS
CN 2.4-Thiazolidinedione, 5-[2-[[15,35]-3-[[2-[4-(1,1-dimethylethyl]phenyl]-5-ethyl-4-oxazolyl]methoxy]cyclohexyl]ethyl]- (9C1) (CA INDEX NAME)

#### Absolute stereochemistry.

RN 755420-52-1 CAPLUS
CN 2,4-Thiazolidinedione, 5-[2-[(15,35)-3-[[2-(3,4-dimethylphenyl)-5-(1-methylethyl)-4-oxazolyl]methoxy]cyclohexyl]ethyl]- (9CI) (CA INDEX NAME)

#### Absolute sterenchemistry

# L8 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

RN 755420-73-6 CAPLUS
CN 2,4-Thiazolidinedione, 5-[2-[(15,35)-3-[[5-(1-methylethyl)-2-[4-(2-methylpropyl)phenyl]-4-oxazolyl]methoxy]cyclohexyl]ethyl]- (9CI) (CA INDEX NAME)

#### Absolute stereochemistry.

RN 755420-79-2 CAPLUS
CN 2,4-Thiazolidinedione, 5-[2-{(15,35)-3-[5-(1-methylethyl)-2-[4-(trifluoromethyl)phenyl]-4-oxazolyl]methoxy]cyclohexyl]ethyl]- (9CI) (CA INDEX NAME)

#### Absolute stereochemistry.

RN 755420-82-7 CAPLUS
CN 2.4-Thiazolidimedione, 5-[2-[(15,35)-3-[[5-(1-methylethyl)-2-(2-naphthalenyl)-4-oxazolyl]methoxylcyclohexyl]ethyl]- (9C1) (CA INDEX NAME)

#### Absolute stereochemistry.

ANSWER 1 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN LØ

755420-97-2 CAPLUS 2,4-Thiazolidinedione, 5-{2-{(1R,3R)-3-{[2-(3-methoxyphenyl)-5-methyl-4-oxzolyl]methoxyjcyclohexyl]ethyl]-3-methyl-, rel- (9CI) (CA INDEX NAME)

#### Relative stereochemistry.

755420-93-0 CAPLUS 2,4-Thiazolidinedione, 5-{2-{(1R,3R)-3-{{2-(3-methoxyphenyl}}-5-methyl-4-oxazolyl]methoxyjcyclohexyl]ethyl]-3-phenyl-, rel- (9CI) (CA INDEX NAME)

#### Relative stereochemistry.

755420-98-5 CAPLUS 2,4-Thiazolidinedione, 3-methyl-5-{2-{(1R,3R)-3-{[5-methyl-2-(4-methylphenyl)-4-oxazolyl]methoxy]cyclohexyl]ethyl]-, rel- (9CI) (CA INDEX NAME)

#### Relative stereochemistry.

755421-04-6 CAPLUS 2,4-Thiazolidinedione, 5-[2-[(1R,3R)-3-[[5-methyl-2-(4-methylphenyl)-4-oxazolyl]methoxy]cyclohexyl]ethyl]-3-(phenylmethyl)-, rel- (9CI) (CA INDEX NAME)

L8 ANSWER 2 OF 7 ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

SOURCE:

AUTHOR (S):

CORPORATE SOURCE:

CAPLUS COPYRIGHT 2005 ACS on STN
2002:149264 CAPLUS
136:340623
Novel 5-Substituted 2,4-Thiazolidinedione and
2,4-Oxazolidinedione Derivatives as Insulin
Sensitizers with Antidiabetic Activities
Momose, Yu Maekawa, Tsuyosni; Yamano, Tohru; Kawada,
Mitsucus Odaka, Ricoyuki; Ikeda, Hitoshi; Sohda,
Takashi
Medicinal Chemistry Research Laboratories II,
Pharmacology Research Laboratories II, and Strategic
Research Planning, Pharmaceutical Research Division,
Takeda Chemical Industries Ltd., Yodogawaku, Osaka,
532-8686, Japan
Journal of Medicinal Chemistry (2002), 45(7),
1518-1534
CODEN: NMCMAR; ISSN: 0022-2623
American Chemical Society
Journal
English
CASREACT 136:340623

PUBLISHER: DOCUMENT TYPE: LANGUAGE:

OTHER SOURCE(S):

AB 5-(e-Azolylalkoxyphenylalkyl)-2,4-thiazolidinones and -2,4-oxazolidinones such as furylmethyloxazolylmethoxymethoxyphenylpropyl oxazolidinedione I were prepared as potential antidiabetic and antihyperlipidemic agents. Many of the 2,4-thiazolidinediones and 2,4-oxazolidinones showed potent glucose- and lipid-lowering activities. The antidiabetic activities of the 2,4-oxazolidinediones were superior to those of the 2,4-thiazolidinediones. Both enantiomers of I, one of the most interesting compds. In terms of activity, were synthesized by using an asym. O-acetylation of the corresponding a-hydroxyvalerate with immobilized lipase, followed by cyclization of the oxazolidinedione ring. The (8)-(4)-enantiomer of I showed more potent glucose-lowering activity [ED25 = 0.561 mg/kg/d) than either the (5)-(-)-enantiomer (ED25 > 1.5 mg/kg/d) or pojulitazone (ED25 = 6 mg/kg/d) in XNAy mice. (+)-(R)-I also exhibited a 10-fold more potent antidiabetic activity (ED25 = 0.05 mg/kg/d) the mjoglitazone (ED25 = 0.5 mg/kg/d) in Wistar fatty rats. The antidiabetic effects of I are related to its activity as a potent agonist for peroxisome proliferator-activated receptor (PPAR-Y) (EC50 = 8.87 nM). The crystal structures of intermediates in the synthesis of nonracemic thiazolidinediones were determined by X-ray crystallog.

11 41729-31-8P
RL: PAC (Pharmacological activity): SPN (Synthetic preparation): BIOL (Biological activity): PAC (Preparation)

RL: PAC (Pharmacological activity): SPN (Synthetic preparation): BIOL (Biological study): PREP (Preparation) (preparation of 5-(e-azolylalkoxyphenylalkyl)-2,4-thiazolidinones and -2,4-oxazolidinediones as peroxisome proliferator-activated receptor

ANSWER 1 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN

755421-09-1 CAPLUS 2.4-Thiazolidinedione, 5-[2-[(1R,3R)-3-[[2-(3-methoxypheny1)-5-(1-methylathyl)-4-oxazolyl]methoxy]cyclohexyl]ethyl]-3-methyl-, rel- (9CI) (CA INDEX NAME)

#### Relative stereochemistry.

REFERENCE COUNT:

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT 2

- ANSWER 2 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN (Continued) y agonists and as potential antidiabetic and antihyperlipidemic agents) 417729-31-8 CAPLUS 2,4-0xazolyl)methoxylphenyl]propyl]- (9CI) (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 3 OF 7
ACCESSION NUMBER:
DOCUMENT NUMBER:
132:265154

AUTHOR(5):

AUTHOR(5):

CORPORATE SOURCE:

CORPORATE SOURCE:

CAPLUS COPYRIGHT 2005 ACS on STN
2000:94931 CAPLUS
132:265154

New Acoldidinediones as Inhibitors of Protein Tyrosine Phosphatase 1B with Antihypecglycemic Properties Phosphatase 1B with Antihypecglycemic Phosphatase 1B with Antihypecglycemic Phosphatase 1B with Antihypecglycemic Phosphatase 1B with Antihypecglycemic Phosphatase 1B with Antihypecglyc

USA Journal of Medicinal Chemistry (2000), 43(5), 995-1010 CODEN: JMCMAR: ISSN: 0022-2623 American Chemical Society Journal English

PUBLISHER: DOCUMENT TYPE: LANGUAGE: GI

Insulin resistance in the liver and peripheral tissues together with a pancreatic cell defect are the common causes of type 2 diabetes. It is now appreciated that insulin resistance can result from a defect in the insulin receptor signaling system, at a site post binding of insulin to its receptor. Protein tyrosine phosphatases (PTPases) have been shown to be neg. regulators of the insulin receptor. Inhibition of PTPases may be an effective method in the treatment of type 2 diabetes. A series of azolidinediones has been prepared as protein tyrosine phosphatase 18 (PTP18) inhibitors. Several compds. were potent inhibitors against the recombinant rat and human PTP18 enzymes with submicromolar IC50 values. Elongated spacers between the azolidinedione moiety and the central aromatic portion of the mol. as well as hydrophobic groups at the vicinity of this aromatic region were very important to the inhibitory activity. Oxadiazolidinediones (E)- and (2)-I (R = H. CH2COZH) were the best h-PTP18 inhibitors with IC50 values in the range of 0.12-0.3 mM. Several compds. normalized plasma glucose and insulin levels in the ob/ob and db/db disabetic mouse models.

174259-09-7P 174259-13-3P

RL: RRC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SFN (Synthetic preparation); BIOL (Biological study); PREF (Preparation); RACT (Reactant or reagent) (preparation of phenyloxazolylalkoxyphenylalkyloxazolidinediones as

ein tyrosine phosphatase inhibitors)
174259-09-7 CAPIUS
2,4-0xazolidinedione, 5-[(2E)-3-[3-[(5-methyl-2-phenyl-4-oxazolyl)methoxy]phenyl]-2-butenyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

ANSWER 3 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN le bond geometry as shown.

174259-12-2 CAPLUS
2,4-Oxazolidinedione, 5-[(2E)-3-[3-[2-(5-methyl-2-phenyl-4-oxazolyl)ethoxy]phenyl]-2-butenyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

174259-14-4 CAPLUS
2,4-Thiazolidinedione, 5-{(2E)-3-[3-([5-methyl-2-[4-(trifluoromethoxy)phenyl]-4-oxazolyl]methoxy]phenyl]-2-butenyl]- (9CI)
(CA INDEX NAME)

Double bond geometry as shown.

THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 3 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

174259-13-3 CAPLUS
2.4-Thiazolidinedione, 5-[(2E)-3-[3-[(5-methyl-2-phenyl-4-oxazolyl)methoxy]phenyl]-2-butenyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

ΙT

174259-10-0P 174259-11-1P 174259-12-2P
174259-14-4P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
study); PREP (Preparation)

protein

tyrosine phosphatase inhibitors)

174259-10-0 CAPLUS
2,4-Omazolidinedione, 5-[(2E)-3-[3-[[5-methyl-2-[4-(2,2,2-trifluorecthoxy)phenyl]-4-oxazolyl]methoxy]phenyl]-2-butenyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

174259-11-1 CAPLUS
2,4-Oxazolidinedione, 5-[(ZE)-3-[3-[[5-methyl-2-[4-(trifluoromethoxy)phenyl]-4-oxazolyl]methoxy]phenyl]-2-butenyl]- (9CI)
(CA INDEX NAME)

L8 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1997:155097 CAPLUS
100CUMENT NUMBER: 126:157496
Preparation of oxazolidinediones and analogs as antitumor agents
ANTITUDE: Sobda, Takashi, Matsutani, Etsuya; Momose, Yu
Takeda Chemical Industries, Ltd., Japan
PCT Int. Appl., 158 pp.
CODEN: PIXXD2
PATENT TYPE: EANGUAGE: Patent
LANGUAGE: Patent
FAMILY ACC. NUM. COUNT: 1

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.		DATE	APPLICATION NO.	DATE			
WO 9700249	A1	19970103	WO 1996-JP1643	19960614			
W: AL, AM	, AU, AZ, BB	, BG, BR,	BY, CA, CN, CZ, EE, GE,	HU, IL, IS,			
KG, KR	, KZ, LK, LR	, LT, LV,	MD, MG, MK, MN, MX, NO,	NZ, PL, RO,			
RU, SG	, SI, SK, TJ	, TM, TR,	TT, UA, US, UZ, VN, AM,	AZ, BY, KG,			
KZ, MD							
RW: KE, LS	, MW, SD, SZ	, UG, AT,	BE, CH, DE, DK, ES, FI,	FR, GB, GR,			
IE, IT	, LU, MC, NL	, PT, SE,	BF, BJ, CF, CG, CI, CM,	GA, GN, ML,			
MR, NE	, SN, TD, TG		•				
JP 09136877	A2	19970527	JP 1996-107989	19960426			
AU 9660168	A1	19970115	AU 1996-60168	19960614			
PRIORITY APPLN. INF	0.:		JP 1995-150048	A 19950616			
				A 19950912			
				A 19960426			
				W 19960614			
OTHER COURCE (E) .	MADDAT	126:1574		W 13300014			
OTHER SOURCE(S):	MARPAT	120:15/4	30				

Title compds. [I; R = (un) substituted hydrocarbyl; R1 = H; R2 = CHR3ZIR4; R3 = H; R1R3 = bond; R4 = (un) substituted hydroxyphenyl, -hydrocarbyloxyphenyl, -2-hydrocarbypyridyl, act.; X = O or S; Z = O, S, (alkyl)imino; Z1 = hydrocarbylene] were prepared Thus, 4-

- ANSVER 4 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN (Continued) isopropoxy-3-methoxycinnamaldehyde (prepn. given) was condensed with 2,4-oxazolidinedione and the hydrogenated and deprotected product etherified and N-alkylated in successive steps by 4-chloromethyl-2-[(E)-2-phenylathenyl]oxazole (prepn. given) to give title compd. II. Data for biol. activity of I were given. 186894-91-79 186894-92-8P 186894-99-5P
- IT

186894-91-7P 186894-92-8P 186894-99-SP
186893-00-1P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SFN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of oxazolidinediones and analogs as antitumor agents) 186894-91-7 CAPLUS 2,4-Oxazolidinedione, 5-[2-[4-methoxy-3-[[5-methyl-2-(2-naphthalenyl)-4-oxazolyl]methoxy]phenyl]ethyl]-3-[3-(4-phenyl-1-piperazinyl)propyl]- (9CI) (CA INDEX NAME)

PAGE 1-B

186894-92-8 CAPLUS 2,4-Oxazolidinadione, 5-[2-[4-methoxy-3-{[5-methyl-2-(2-naphthalenyl)-4-oxazolyl]methoxy)phonyl]ethyl)-3-[3-(4-phenyl-1-piperazinyl)propyl]-, dihydrochloride (9CI) (CA INDEX NAME)

ANSWER 4 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN

(Continued) PAGE 1-B

186894-28-09
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of owazolidinediones and analogs as antitumor agents)
186894-28-0 CAPIUS
2.4-Oxazolidinedione, 5-[2-[4-methoxy-3-[[5-methyl-2-(2-naphthalenyl)-4-oxazolyl]methoxy]phenyl]ethyl]- (9CI) (CA INDEX NAME)

ANSWER 4 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

PAGE 1-B

186894-99-5 CAPLUS 2.4-Oxazolidinedione, 5-{2-{3-{[2-{3,5-bis}(trifluoromethy1)pheny1}-5-methy1-4-oxazoly1]methoxy)-4-methoxypheny1}ethy1]-3-{3-(4-pheny1-1-piperaziny1)propy1]- (9C1) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B



186895-00-1 CAPLUS
2.4-Oxazolidinedione, 5-[2-[3-{{2-[3,5-bis(trifluoromethyl)phenyl}-5-methyl-4-oxazolyl]methoxy]-4-methoxyphenyl]ethyl]-3-{3-(4-phenyl-1-piperazinyl)propyl}-, monohydrochloride {9CI} (CA INDEX NAME)

PAGE 1-A

• HC1

L8 ANSWER 5 OF 7
ACCESSION NUMBER:
DOCUMENT NUMBER:
1996:452768 CAPLUS
COPYRIGHT 2005 ACS on STN
125:162746
Ova (thia) diazolidinediones and oxa (thia) zolidinediones
as antihyperglycemic agents
American Home Products Corp., USA
US., 24 pp., Cont.-in-part of U.S. Ser. No. 421,167.
CODEN: LOXXAM
DOCUMENT TYPE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
2
CORP. 1050 ACS on STN
1294:162746
CORP. 2016
CORP.

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
				*****
US 5532256	A	19960702	US 1995-457948	19950601
US 5468762	A	19951121	US 1994-245734	19940518
RIORITY APPLN. INFO.:			US 1994-245734 A	3 19940518
			IIS 1995-421167 A	10050417

OTHER SOURCE(S): MARPAT 125:142746

#### \* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

TRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

This invention relates to novel compds. which have demonstrated oral antihyperglycemic activity in diabetic ob/ob and db/db mice, animal models of non-insulin dependent diabetes mellitus (NIDDM or Type II diabetes). These compds. have the formula I wherein: R1 is C1-C6 alkyl, C3-C8 cycloalkyl, thienyl, furyl, pyridyl, R10C6H4 or R10C10H6 where R10 is hydrogen, C1-C6 alkyl, fluorine, chlorine, bromine, iodine, C1-C6 alkyl, X is 0 or S; n is 0, 1, or 2; A is II or III where R3 is hydrogen, C1-C6 alkyl, x is 0 or S; n is 0, 1, or 2; A is II or III where R3 is hydrogen, C1-C6 alkyl, halogen, C1-C6 alkyl, allyl, C6-C10 aryl, C6-C10 aryl, C1-C6 alkyl, halogen, C1-C6 alkyl, allyl, C6-C10 aryl, C6-C10 aryl-(CH2)1-6, fluorine, chlorine, bromine, iodine, trimethylsilyl or C3-C8 cycloalkyl; R5 is hydrogen, C1-C6 alkyl, C6-C10 aryl, or C6-C10 aryl-(CH2)1-6, in is 0, 1, or 2; R6 is hydrogen or C1-C6 alkyl; R7 is hydrogen or C1-C6 alkyl; R8 and R9 are selected independently from hydrogen, C1-C6 alkyl; R9, chlorine, bromine, or iodine; Y is S; Z is N or CH; or a pharmaceutically acceptable selt thereof. Thus, alkylation of 3-hydroxylbenzaldehyde with 4-chloromethyl-5-methyl-2-(4-trifluoromethylphenyl)oxazol-4-ylmethoxylbenzaldehyde; reaction of the latter with ethylmagnesium bromide followed by oxidation afforded 474 1-(3-E5-methyl-2-(4-trifluoromethylphenyl)oxazol-4-ylmethoxylphenylpropan-1-one; condensation with tri-Et phosphonoacetate afforded 55t trans- and 280 cis-3-(3-E5-methyl)-2-(4-trifluoromethylphenyl)oxazol-4-ylmethoxylphenylpropan-1-one; condensation with tri-Et phosphonoacetate afforded 55t trans- and 280 cis-3-3-3-(5-methyl)-2-(4-trifluoromethylphenyl)oxazol-4-ylmethoxylphenylpropan-1-one; condensation with tri-Et phosphonoacetate afforded 55t trans- and 280 cis-3-3-3-(5-methyl)-2-(4-trifluoromethylphenyl)oxazol-4-ylmethoxylphenylpropan-1-one; condensation with tri-Et phosphonoacetate afforded 55t trans- and 280 cis-3-3-3-3-5-methyl-2-(4-tri

.oved by condensation with BOC-HNO-BOC afforded 96% [8]-N-tert-butoxycarbonyloxy-(3-[3-{5-methyl-2-(4-trifluoromethylphenyl)oxazol-4-ylmethoxylphenylpent-2-enyl)carbamic acid tert-Bu ester: deprotection to the hydroxylamine [88%] followed by cyclization with N-(chlorocarbonyl) isocyanate afforded 64% [8]-2-(3-[3-[5-nethyl-2-(4-trifluoromethylphenyl)oxazol-4-ylmethoxylphenyl)pent-2-enyl)[1,2,4]oxadiazolidine-3,5-dione VII which exhibited -76% change in blood glucose in db/db mice at 100 mg/kg p.o. 174259-09-7P 174259-10-0P 174259-11-1P

ANSWER 5 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
174259-12-2P 174259-13-3P 174259-14-4P
RL: RAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified); SFN (Synthetic preparation); THU (Therapeutic use);
BIOL (Biological study); PREP (Preparation); USES (Uses)
(oxa(this)diazolidinediones and oxa(this)zolidinediones as
antihyperglycemic agents)
174259-09-7 CAPLUS
2,4-Oxazolylidinedione, 5-[(2E)-3-[3-[(5-methyl-2-phenyl-4oxazolyl)methoxy]phenyl]-2-butenyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

174259-10-0 CAPLUS
2.4-Oxazolidinedione, 5-[(2E)-3-[3-[[5-methyl-2-[4-(2,2,2-trifluorechtoxy)phenyl]-4-oxazolyl]methoxy]phenyl]-2-butenyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

174259-11-1 CAPLUS
2,4-Owazolidi nedione, 5-[(2E)-3-[3-[[5-methyl-2-[4-(trifluoromethoxy)phenyl]-4-oxazolyl]methoxy]phenyl]-2-butenyl]- (9CI)
(CA INDEX NAME)

Double bond geometry as shown.

174259-12-2 CAPLUS

L8 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1996:428416 CAPLUS
DOCUMENT NUMBER: 125:86639
Preparation of oxazolidinedione derivatives having excellent actions of lowering blood sugar and lipid in blood
INVENTOR(S): Sohda, Takashir Odaka, Hiroyukir Momose, Yur Kawada, Hitaucu
PATENT ASSIGNEE(S): Takeada Chemical Industries, Ltd., Japan
EUR. Pat. Appl., 55 pp.
COUNENT TYPE: PAT. Appl., 55 pp.
COUNENT TYPE: Pat. Appl., 55 pp.
LANGUAGE: PAMILY ACC. NUM. COUNT: 1

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

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PATENT NO.		DATE	APPLICATION NO.	DATE
EP 710659			EP 1995-307793	19951101
EP 710659	В1	20040128		
R: AT, BE, CH,	DE, DK	, ES, FR,	GB, GR, IE, IT, LI, LU,	NL, PT, SE
TW 403748	В	20000901	TW 1995-84111412	19951028
TW 403748 US 5932601	A	19990803	US 1995-550289	19951030
ZA 9509204	A	19970430	ZA 1995-9204	19951031
JP 09124623	A2	19970513	JP 1996-298847	
JP 09194467	A2	19970729		19951031
JP 2850809	B2	19990127		
CA 2161944	AA	19960503	CA 1995-2161944	19951101
FI 9505235	A	19960503		19951101
NO 9504369	A	19960503		
NO 306401	B1	19991101		
AU 9536607	A1	19960509	AU 1995-36607	19951101
AU 701847	B2	19990204		
HU 75101	A2	19970428	HU 1995-3116	19951101
BR 9505051	A	19971021	BR 1995-5051	19951101
RU 2144030		20000110	RU 1995-118725	19951101
AT 258549	E	20040215	AT 1995-307793	19951101
CN 1129698	A	19960828	CN 1995-121558	19951102
PRIORITY APPLN. INFO.:			JP 1994-269826	A 19941102
			JP 1995-171768	A 19950707
				A 19950829
				A3 19951031

MARPAT 125:86639 OTHER SOURCE(S):

$$R - (Y)_{10} - (CH_2)_{10} - CH_2 -$$

(Phenylalkyl) exazolidinedione derivs. and analogs represented by the formula [I; R = optionally substituted hydrocarbon residue or heterocyclic group; Y = CO, OCH(OH) or NR3 (wherein R3 = optionally substituted alkyl group); m = 0 or I; n = 0, l or 2; A = Cl - 7 divalent aliphatic hydrocarbon group; R1 = H or alkyl group; ring E = benzene ring having 1 or 2

ANSWER 5 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN (Cont 2,4-Oxazolidinedione, 5-[(2E)-3-[3-[2-(5-methyl-2-phenyl-4 oxazolyl)ethoxy]phenyl]-2-butenyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

174259-13-3 CAPLUS
2,4-Thiazolidinedione, 5-[(2E)-3-[3-[(5-methyl-2-phenyl-4-oxazolyl)methoxy]phenyl]-2-butenyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

174259-14-4 CAPLUS
2.4-Thiazolidinedione, 5-[(2E)-3-[3-[[5-methyl-2-[4-trifluoromethoxy]phenyl]-4-oxazolyl]methoxy]phenyl]-2-butenyl]- (9CI)
(CA INDEX NAME)

Double bond geometry as shown.

ANSWER 6 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN (Continued) substituents; L, H = H, or L and H may optionally be combined with each other to form a bond; with a proviso that the partial formla: does not include 2-alkylphenylene] or salts thereof, which are useful for the treatment of diabetes and hyperlipenia, are prepd. Thus, 3-methomy-4-(5-methyl-2-phenyl-4-oxazolylmethomy) cinnamaldehyde was condensed with 2.4-oxazolidinedione in the presence of piperidine in refluxing AcOH followed by catalytic hydrogenation over 51 Pd-C in THF to give 5-[3-[3-methomy-4-(5-methyl-2-phenyl-4-oxazolylmethomy) phenyllpropyl-2,4-oxazolidinedione (II). II mixed in a powdery feed at 0.005% was fed to KTANy mice freely for 4 days and blood was collected from the orbital venous plexus and analyzed to show 57% hypoglycemic action and 75% triglyceride-lowering action as compared to the control animals. A tablet formulation contg. II was given.
178610-07-6F

RESIDENCIPOR

RE: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of oxazolidinedione derivs. for therapy in lowering sugar

lipid in blood)
17.6010-07-6 CaPLUS
27.4-0xazolidinedione, 5-[3-[4-methoxy-3-[(5-methyl-2-phenyl-4-oxazolyl)methoxy]phenyl]propyl]- (9CI) (CA INDEX NAME)

L8 ANSVER 7 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
1995:1003034 CAPLUS
124:202232
124:202232
CMazolyl azolidinediones as antihyperglycenic agents
Malamas, Michael S.J Gunavan, Ivan
American Home Products Corporation, USA
U.S., 23 pp.
CODEN: USXXAM
DOCUMENT TYPE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: Patent English

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					-									-		
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CA 21	90015			AA		1995	1123		CA	1995-	2190	015		1	9950	413
WO 95	31454			A1		1995	1123		WO '	1995-	US46	31		1	9950	413
	: AM,	AU,	BB.	BG,	BR.	BY.	CA.	CN,	CZ	. EE.	FI.	GE.	HU,	IS.	JP.	KE.
	KG,	KP,	KR,	KZ,	LK.	LR.	LT.	LV.	MD.	, MG,	MN.	MV.	MX.	NO.	NZ.	PL.
										, UA,						
F	W: KE,													GR.	IE.	17.
										, cı,						
	SN	TD	TG													
AU 95	23842			Al		1995	1205		AU :	1995-	2384	2		1	9950	413
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EP 75	9919			B1		1998	1111									
CN 11	152312 5823 5500133 73256 124545 503981 532256			A		1997	0618		CN :	1995-	1940	37 <sup>.</sup>		i	9950	413
HU 7€	5823			A2		1997	1128		HU :	1996-	3185			1	9950	413
JP 10	500133			T2		1998	0106		JP '	1995-	5296	44		1	9950	413
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ES 21	24545			T3		1999	0201		ES	1995-	9169	89		1	9950	413
2A 95	03981			A		1996	1118		ZA ·	1995-	3981			1	9950	516
us 55	32256			A		1996	0702		us	1995-	4579	48		1	9950	601
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									us	1995-	4211	67		12 1	9950	413
									WO :	1995-	11546	31		w i	9950	413
OTHER SOUR	CE(S):			MARE	PAT	124:	2022									- 23
GT SOUL																

# \* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

This invention relates to compds, which have oral antihyperglycemic activity of the formula I wherein: Ri is, e.g., C1-C6 alkyl, C3-C8 cycloalkyl, thienyl, furyl, pyridyl, R10-substituted Ph or naphthyl where R10 is hydrogen, C1-C6 alkyl, Pluorine, chlorine, bromine, iodine, C1-C6 alkys, trifluoroalkyl or trifluoroalkoxy, R2 is hydrogen or C1-C6 alkyl, X is 0 or 5; n is 1 or 2; A is II or III where R3 is hydrogen, C1-C6 alkyl, K is 0 or 5; n is 1 or 2; A is II or III where R3 is hydrogen, C1-C6 alkyl, Nor VI where R4 is hydrogen, C1-C6 alkyl, alkyl, C6-C10 aryl, C6C10; aryl, C7C10; a

ANSWER 7 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN

174259-12-2 CAPLUS 2,4-Oxazolidinedione, 5-[(2E)-3-[3-{2-(5-methyl-2-phenyl-4-oxazolyl)ethoxy|phenyl}-2-butenyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

174259-13-3 CAPLUS
2,4-Thiazolidinedione, 5-[(2E)-3-[3-[(5-methyl-2-phenyl-4-oxazolyl)methoxy]phenyl]-2-butenyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

174259-14-4 CAPLUS
2,4-Thiazolidinedione, 5-[(2E)-3-[3-[[5-methyl-2-[4-(trifluoromethoxy)phenyl]-4-oxazolyl]methoxy]phenyl]-2-butenyl]- (9CI)
(CA INDEX NAME)

Double bond geometry as shown.

ANSWER 7 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

5; Z is N or CH when Y is 0 and Z is CH when Y is S; or a pharmaceutically acceptable salt thereof. Thus, e.g., treatment of (E)-N-(3-(3-[5-methyl-2-(4-trifluoromethylphenyl)loazol-4-ylmethoxylphenyl)pent-2-enyl)hydroxylamine (prepn. given) with N-(Chlorocarbonyl)isocyanate afforded 64% (E)-2-(3-(3-[5-methyl-2-(4-trifluoromethylphenyl)oxazol-4-ylmethoxylphenyl)pent-2-enyl] (1,2,4)oxadiazolidine-3,5-dione (VII) which exhibited -76% change in blood glucose in diabetic db/db mice at 100 mg/kg N.O.

Double bond geometry as shown.

174259-10-0 CAPLUS
2,4-Oxazolidinedione, 5-[(2E)-3-[3-[5-methyl-2-(4-(2,2,2-trifluoroethoxy)phenyl]-4-oxazolyl]methoxy]phenyl]-2-butenyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

174259-11-1 CAPLUS
2,4-Oxazolidinedione, 5-[(2E)-3-[3-[[5-methyl-2-[4-(trifluoromethoxy)phenyl]-4-oxazolyl]methoxy]phenyl]-2-butenyl]- (9CI)
(CA INDEX NAME)

Double bond geometry as shown.

ANSWER 7 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)